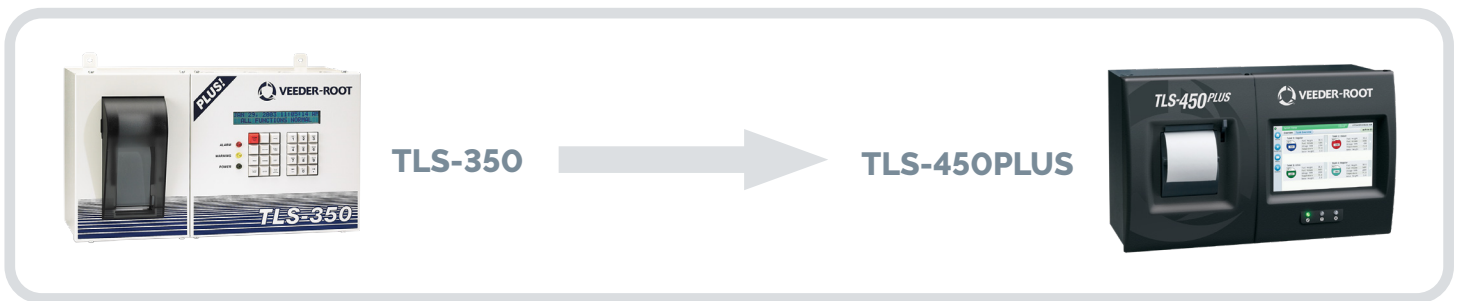


Upgrade to the TLS-450PLUS Automatic Tank Gauge

Elevate Your Fuel Management System

Why Upgrade?

The TLS-350 Automatic Tank Gauge (ATG) has long set the standard for exceptional quality in fuel management systems. Today, the TLS-450PLUS ATG builds on that solid legacy to set a new bar for reliability and convenience.



► BENEFITS

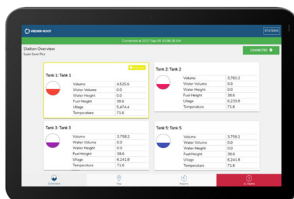
There are four areas that set the TLS-450PLUS apart from the TLS-350 and its competition:

- Connectivity
- Enhanced Security
- Total Cost of Ownership
- Expanded Capability



CONNECTIVITY

Whether you need to remotely access or configure your tank gauge from a computer, or you want to check fuel inventories and alarms from your cell phone or tablet, the connectivity features needed to get the job done come standard, exclusively on the TLS-450PLUS and TLS4 series tank gauges.



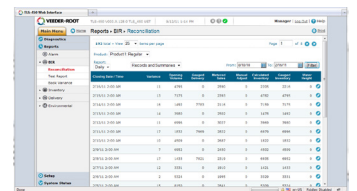
The Remote View App

Provides a real-time connection to fuel inventory and alarms (both audible and visual). This app is continuously connected to the ATG and is intended to be used in-store where users will see it to bring the ATG from the backroom to the front of the store. Available for free on Apple and Android devices.



The Plus View App

Provides a quick overview of a station. While active, app will periodically poll the consoles to check status and gather data. The app provides Current Inventory, Active Alarms, and Last Delivery and is intended for on- or off-site use. Available for free on Apple and Android devices.



Web-Enabled Interface

Gain remote access to your ATG from any device, anywhere, as if you were standing in front of the ATG with the Web-Enabled interface; standard on every TLS-450PLUS and TLS4 series ATG. View all active alarms, inventory data, deliveries, access and change configuration, and view compliance reports.



ENHANCED SECURITY

Whether a security breach comes from inside or outside an organization, older technology lacks modern security features needed to combat cyber intruders, who can wreak havoc on your business. Features such as strong encryption, configurable user access, and segmented network ports help ensure your network is safe at every level.

Rest assured with the comprehensive security features of the TLS-450PLUS, no matter your network's size, security comes standard with the TLS-450PLUS.



	TLS-350	TLS-450PLUS
Network Separation of Internet from POS	No	Yes
Encrypted Web Access (HTTPS)	No	Yes
Encrypted Serial Access (SSH)	No	Yes
Role-Based User Access	No	Yes
Front Panel Access Control	No	Yes
Network Routing Tables	No	Yes



TOTAL COST OF OWNERSHIP

The TLS-450PLUS console provides an expanded, advanced feature set at a lower price point than the TLS-350 console without needing to replace your probes or sensors.

Upgrading to the TLS-450PLUS from a TLS-350 **automatically extends the warranty** of your existing probes and sensors for the duration of the warranty on your new TLS-450PLUS.

Significant labor savings can be gained with the TLS-450PLUS in comparison with the TLS-350, from the use of features like remote configuration, remote connectivity, automatic event notifications and more. The TLS-450PLUS helps reduce downtime by ensuring you have real-time access to everything you need to keep your station in top condition.

COST SAVINGS CATEGORY	SAVINGS LEVEL
Equipment cost savings	\$
Remote troubleshooting and configuration	\$
Warranty extension	\$\$
Remote software download	\$\$
Free monthly software upgrades	\$\$\$
Reduced downtime due to real time access to data	\$\$\$\$



EXPANDED CAPABILITY

Veeder-Root is continually upgrading and adding incremental features and enhancements to the TLS-450PLUS and TLS4 series ATGs, including:

Centralized Device Management (CDM)

To ensure easy deployment of software to a network of sites, Veeder-Root has developed CDM to remotely upgrade software on all ATGs in a network.

Digital Pressurized Line Leak Detection (DPLLD)

The line volume expansion of DPLLD for the TLS-450PLUS provides advanced line leak detection to meet the capacity of growing fuel sites, now certified up to 1,178 gallons of capacity.

AccuChart™

Our third generation AccuChart™ utilizes enhanced geometric tank chart modeling for the TLS-450PLUS with optional restricted calibration range to perform calibration. Chart volumes are calculated using adjustable geometry parameters: diameter, capacity, end shape, tilt and probe offset. Completed charts are established more quickly and with higher accuracy from a limited amount of data on the TLS-450PLUS.

Automatic Events

Create custom alarms, and email notifications for anything from a daily inventory report to a catastrophic leak or equipment issue within any TLS-450PLUS or TLS4 Series ATG.

DEF Recirculation

Unlike fueling products, Diesel Exhaust Fluid (DEF) is extremely temperature sensitive, and will freeze when exposed to temperatures below 12°F or break down in conditions above 86°F. Veeder-Root's DEF Recirculation feature on the TLS-450PLUS tank gauge utilizes a sensor to measure the temperature of the DEF fluid between the tank and dispensing system and will circulate the liquid as temperatures approach a set threshold to ensure product quality is maintained.

Free Software Upgrades

Veeder-Root is committed to ensuring that your ATG is always up-to-date and secure with the latest features and enhancements. Software upgrades are always free, and available for download to a thumbdrive on veeder.com.

Intelligent Pump Control (IPC)

TLS-450PLUS software feature that enables communication between the ATG and FE Petro® controllers for advanced pump control. With IPC, you are able to benefit from flow optimization, operational redundancy, proper equipment loading and protection and more with pump staging, advanced pump dispense modes, line and pump priority, and other advanced pump control features.